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and the Cladocera by Dr. Apstein; the echinoderm larvæ by Dr. Th. Mortensen; the Foraminifera by Professor Rhumbler; and the Tripylea (= Phæodaria Hkl.) by Dr. Borgert. Part II contains the Ctenophora by Dr. Vanhöffen; the Schizophyceæ by Prof. N. Wille; and the Flagellatæ, Chlorophyceæ, Coccosphærales, and Silicoflagellatæ by Dr. E. Lemmermann.

As usual in works of composite authorship we find here considerable variety in the method and form of treatment, especially in matters of literature and synonymy. The admission of a large number of fresh-water species in the sections dealing with the Schizophyceæ, Chlorophyceæ, and Flagellatæ seems ill advised. They occur in brackish waters only and are generally adventitious even there, and have no part in the marine plankton. The authors of the sections dealing with the Ostracoda and Cladocera have excluded all adventitious forms from fresh water. It is to be hoped that the appearance of the remaining parts of this most useful manual may not be long delayed.

C. A. K.

**Wild Birds and their Music.**<sup>1</sup>—Notwithstanding the present-day abundance of popular guides to the study of our native birds, Mr. Mathews has found an almost untouched field in preparing a guide to the songs of the commoner species of the eastern United States. In this artistic little volume of 262 pages, the songs and characteristic notes of 82 species are carefully analyzed and set down in musical notation or in line and dot diagrams, and these are so explained as to be quite intelligible, even to one who has no technical knowledge of music. To the beginner in bird study, who finds it much easier to hear birds than to see them, this book cannot fail to be an aid in identifying the commoner song-birds. In addition to the musical description, a brief diagnosis of each species is added, together with a statement of its distribution. A number of plates in wash or in color illustrate nearly all the birds described in the text. All these are from drawings by the author, and although many of them are admirable, others have evidently suffered much in the reproduction. A good index enhances the value of this book for field use.

G. M. A.

<sup>1</sup> Mathews, F. Schuyler. *Field Book of Wild Birds and their Music*. New York; G. P. Putnam's Sons, 1904. 16mo, xxxv + 262 pp., illus. \$2.00.